



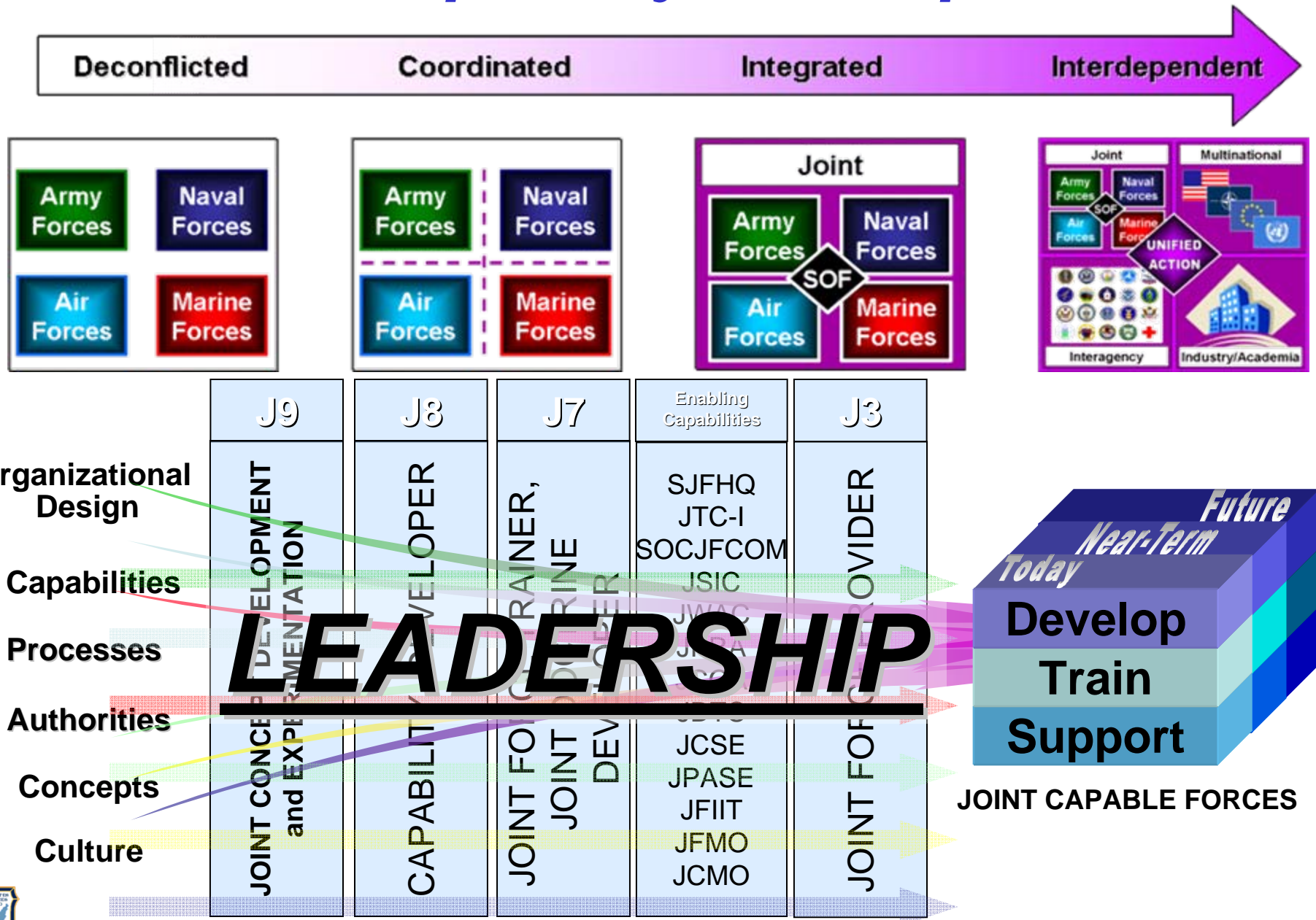
# ***DoD Modeling & Simulation Conference***

## **Modeling & Simulation (M&S) Activities Way Forward**

Mr Greg Knapp  
Executive Director  
for Joint Training

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE <b>11 MAR 2008</b>		2. REPORT TYPE <b>N/A</b>		3. DATES COVERED <b>-</b>	
4. TITLE AND SUBTITLE <b>Modeling &amp; Simulation (M&amp;S) Activities Way Forward</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>US Joint Forces Command</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release, distribution unlimited</b>					
13. SUPPLEMENTARY NOTES <b>2008 DoD M&amp;S (Modeling and Simulation) Conference Presentations held in Orlando, Florida on March 10 - 14, 2008, The original document contains color images.</b>					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT <b>UU</b>	18. NUMBER OF PAGES <b>12</b>	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			

# Joint Capability Development



# ***Military Problem***

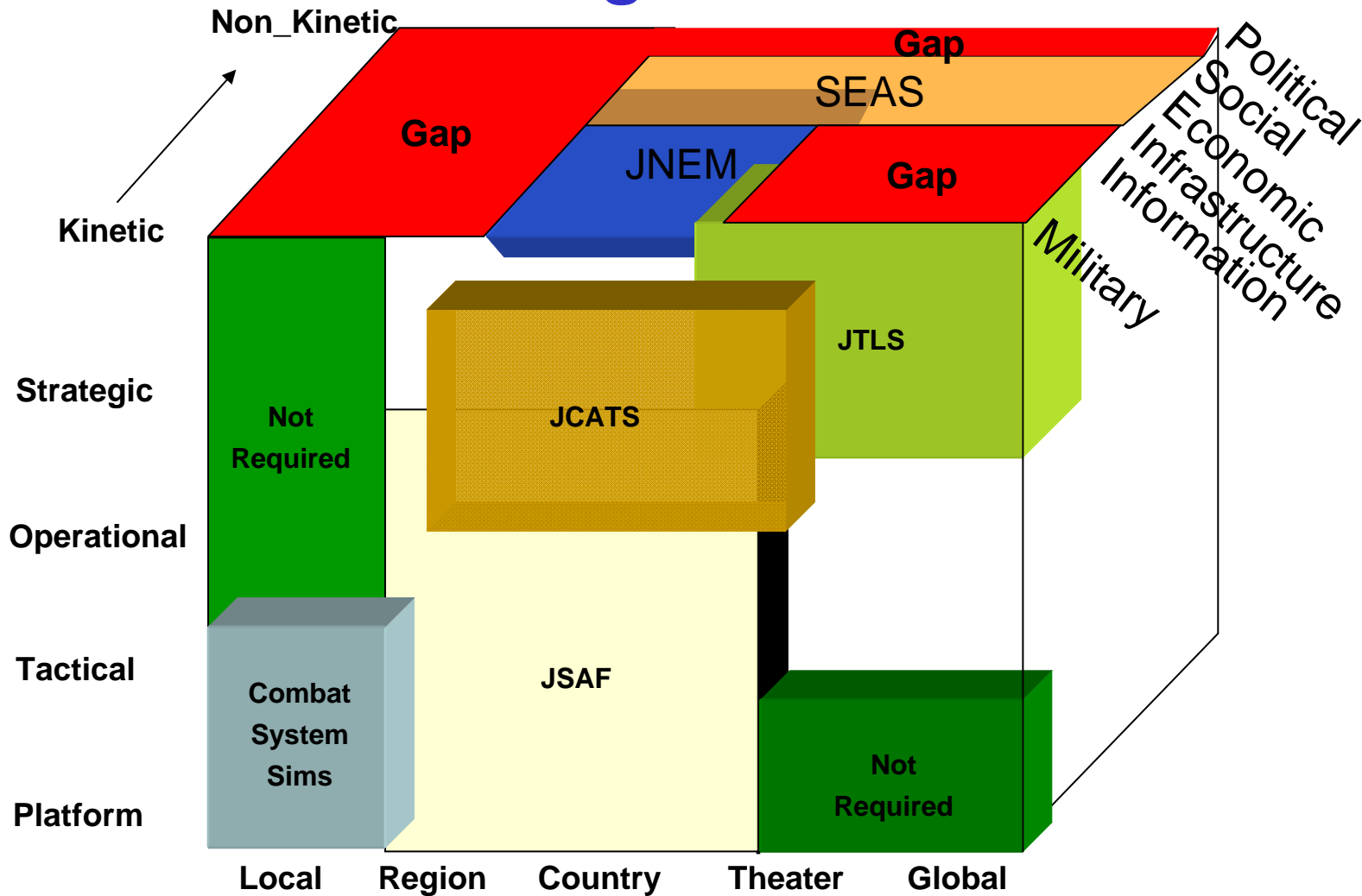
- ✓ M&S not keeping pace with complexity of operations, e.g., Irregular Warfare, to experiment, test and train
- ✓ Need tools to better understand the non-kinetic battle space
- ✓ Inability to rapidly, accurately & realistically simulate “real world” environment
- ✓ M&S activities not configured to enable efficient support for USJFCOM overall mission

***We are only Evolving our simulation capability  
while the world is transforming***





# Complexity of Managing Joint Modeling and Simulation



**Current Gaps, Duplicity, & Lifecycle Issues**



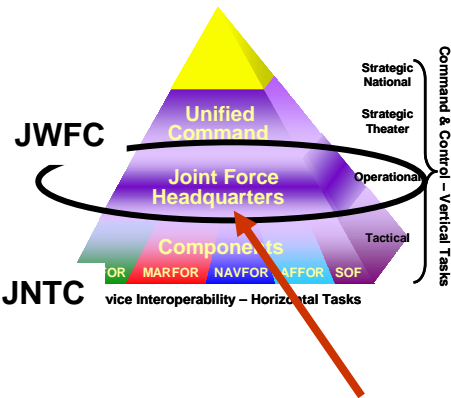
# Joint Training Enterprise

## 19 ACCREDITED SERVICE TRAINING PROGRAMS

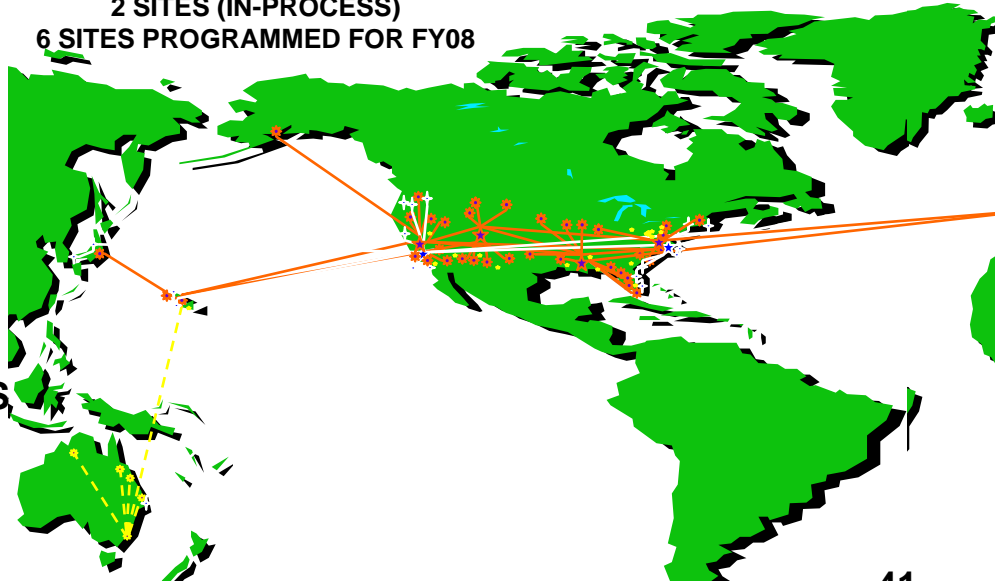
USA – 5  
USN – 3  
USMC – 4  
USAF - 7

28 CERTIFIED SITES  
25 CERTIFIED SYSTEMS

## 93 ACCREDITED TASKS



## 39 CONNECTED SITES 2 SITES (IN-PROCESS) 6 SITES PROGRAMMED FOR FY08



GLOBAL COLLABORATIVE  
INFORMATION ENVIRONMENT

## 8 ACCREDITED COCOM JOINT TRAINING PROGRAMS

JFCOM UE  
EUCOM  
NORTHCOM  
PACOM  
SOCOM  
SOUTHCOM  
STRATCOM  
TRANSOM

596  
SERVICE AND  
COCOM JOINT  
TRAINING  
SHORTFALLS

300  
SOLUTIONS  
IMPLEMENTED

133  
SOLUTIONS  
GENERATED

41  
ON-SITE  
SUPPORT ELEMENTS

## MANAGEMENT RESOURCES

8

**JNTC**  
JOINT  
MANAGEMENT  
OFFICE

**JNTC STAKEHOLDERS**  
MILITARY SERVICES  
USJFCOM / SOCOM  
JOINT STAFF J-7 / OSD

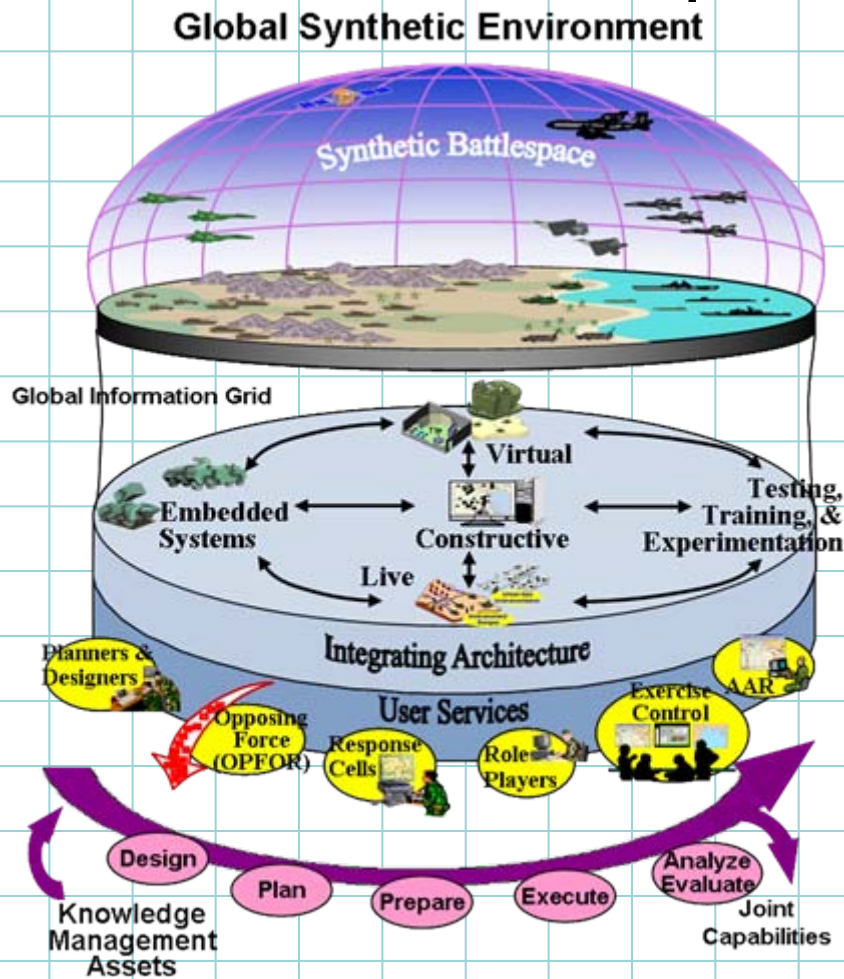


UNCLASSIFIED

Leading Transformation

# Vision Statement

**USJFCOM will lead the Department of Defense in efficiently and effectively implementing a Global Synthetic Environment solution that enables Joint Capability Development.**



- The Global Synthetic Environment
- ✓ A persistent, globally distributed, multi-faceted, synthetic environment
  - ✓ Accurate, realistic, and re-usable representations
  - ✓ LVC data, architecture and standards
  - ✓ Adaptable to changes within today's battlespace
  - ✓ Integrated with Joint Knowledge Online
  - ✓ Operational systems enabled

Slide 35

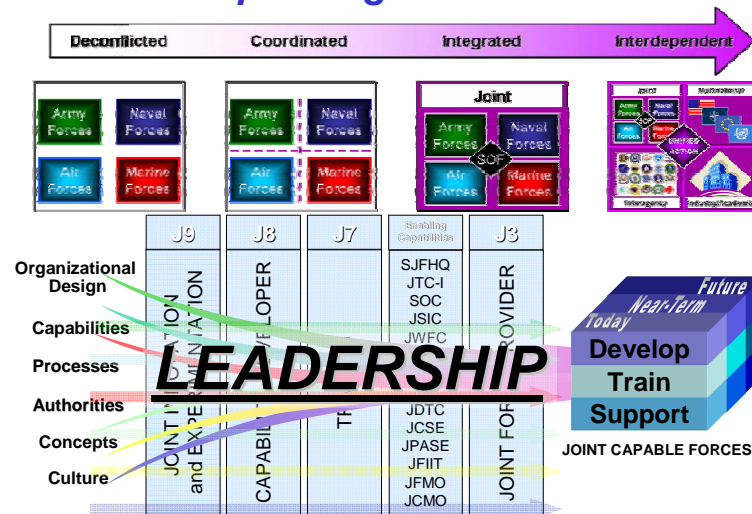


UNCLASSIFIED

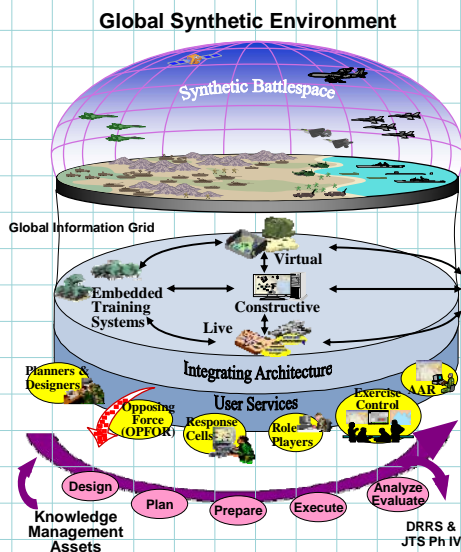
Leading Transformation

# Enabling Joint Warfighting Capability Development

## Accomplishing Transformation



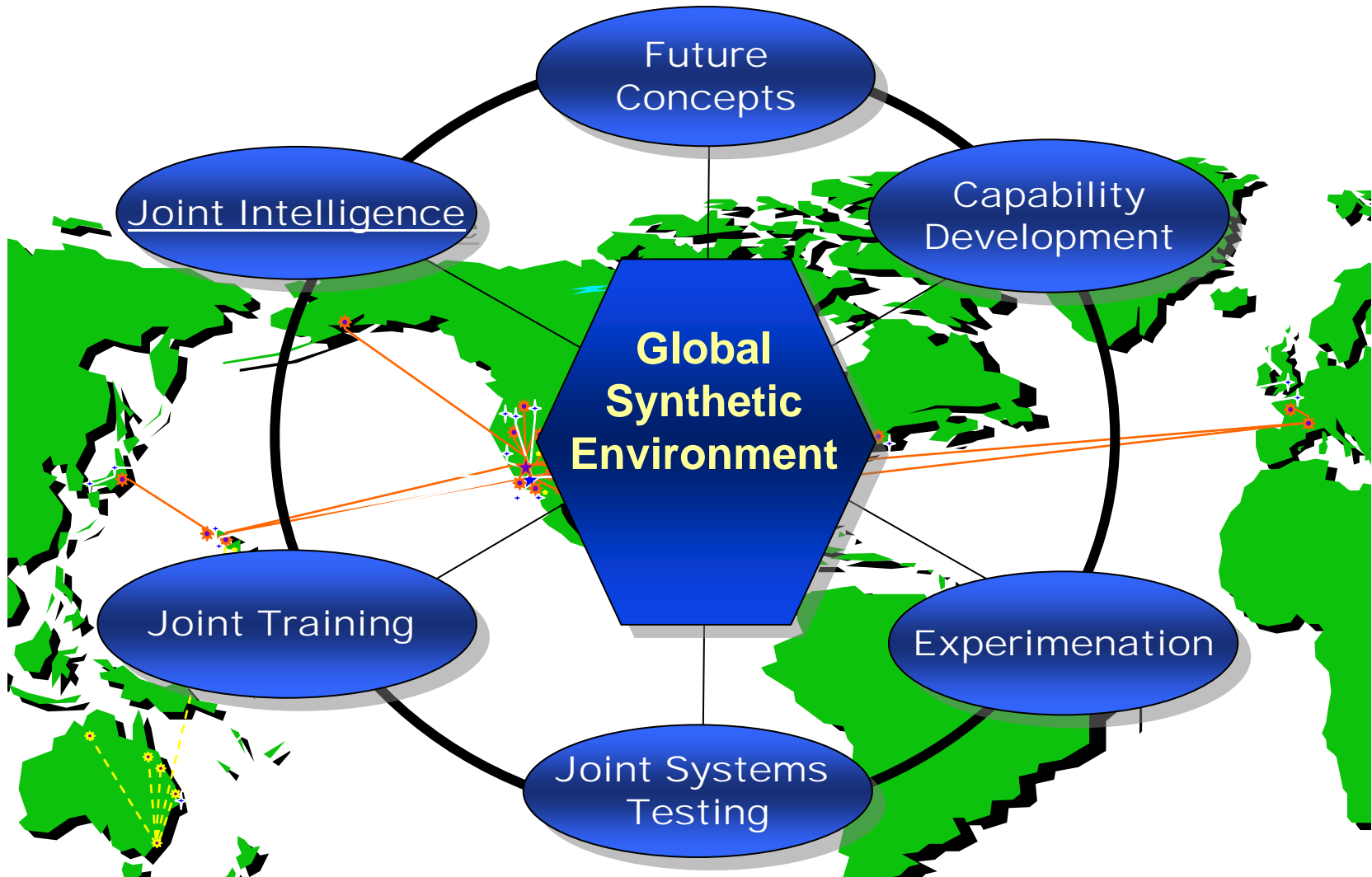
## Global Synthetic Environment – Engine for Change



The Global Synthetic Environment enables realistic adaptive and agile experimentation, testing and training



# FOC Global Synthetic Environment



**FOC: A Single managed Live, Virtual Constructive Program Supporting all dimensions of joint warfighter capability development**



# *Initial Conclusions*

- ✓ Initial Study recommends J7 and J9 M&S Program Alignment under a single center with dual ownership under a board arrangement.
- ✓ Follow on study develop four areas of coordination for Initial Operating Capability (IOC) in 2008/2009:
  - Global Synthetic Environment evolutionary development and ops
  - Aligned Architecture and data strategy
  - Transformational M&S including High perf Computing
  - Aligned Technical Management Process
- ✓ Need to align activities now and improve through operational experience gained.

*Improves USJFCOM position of leadership through M&S advocacy*



# ***Benefits***

- ✓ **Improved M&S Capability**
  - **Irregular Warfare/Cyber/CBRNE/INTEL, etc**
- ✓ **Improved Operating Efficiency, one environment for Experimentation, Test and Training**
- ✓ **Improved ability to transition new capabilities to operational status**
- ✓ **Higher fidelity terrain**
- ✓ **More realistic representation**
- ✓ **Improved Management Leadership**

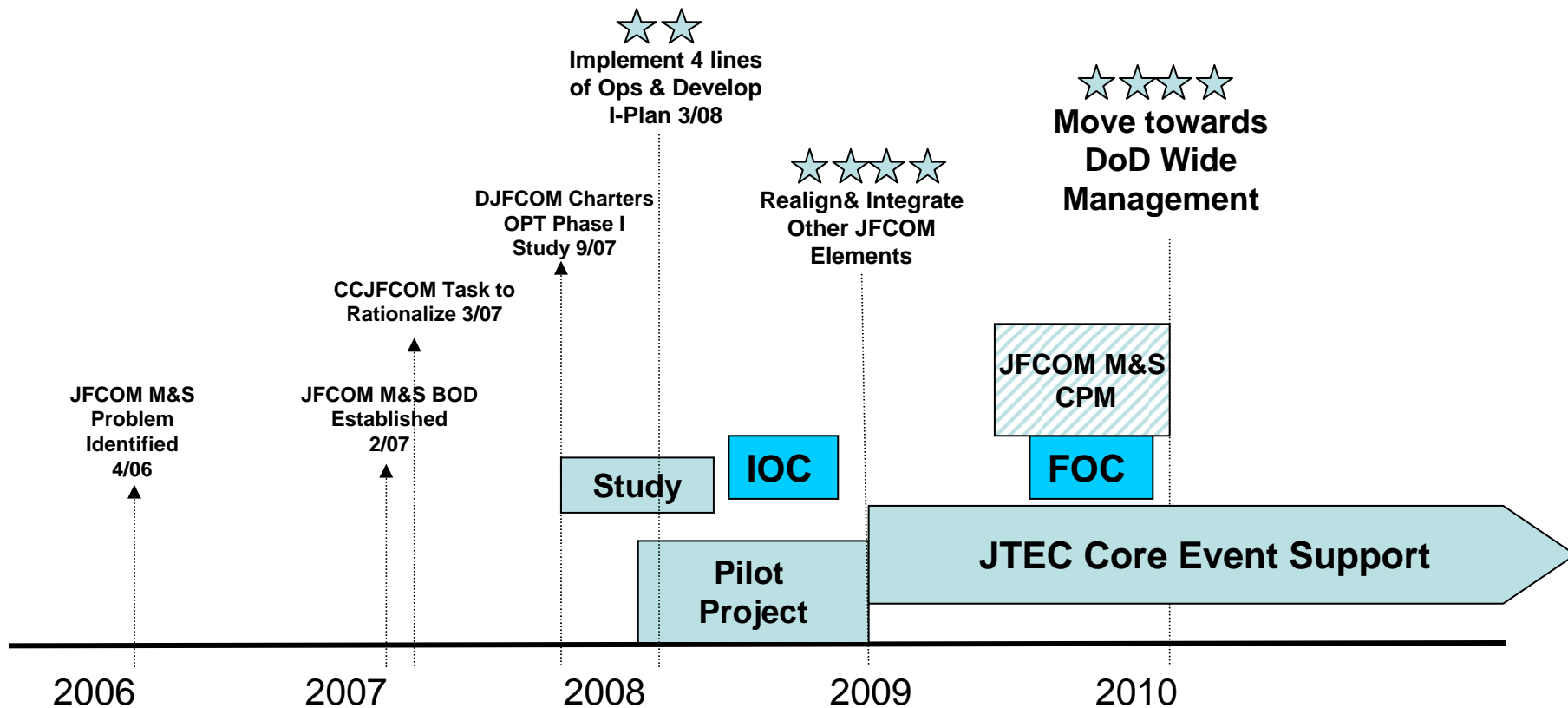




# Plan and Activity Timeline



Decision Point



UNCLASSIFIED

Leading Transformation



# Questions ?

